

The Physiology, Chemistry and Nutritional Science of Pediatric Surveillance

Marion P. Cullen, Ph.D.

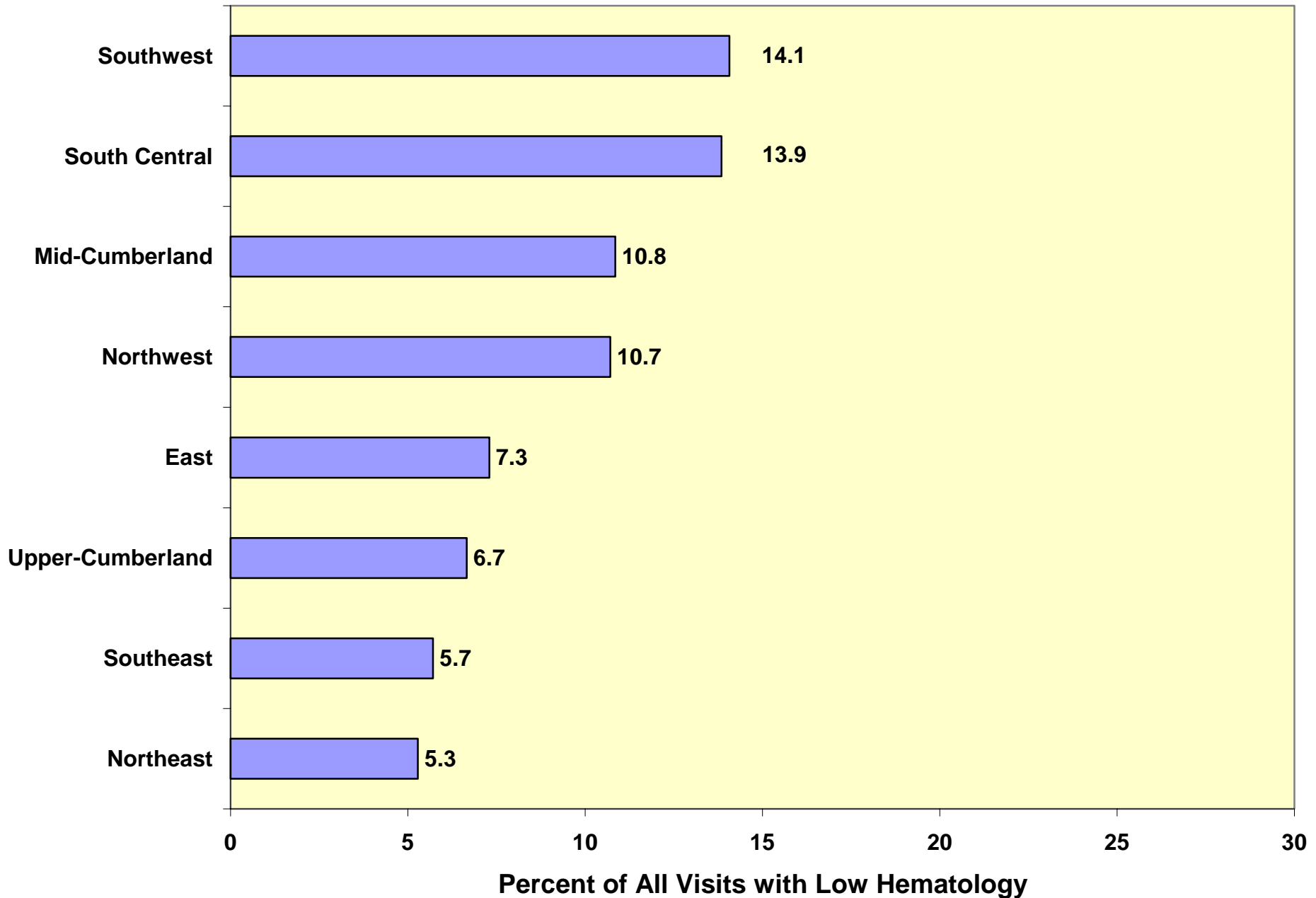
Derek A. Chapman, Ph.D.

Presented at the TN Dept. of Health
Epi Brown Bag Series

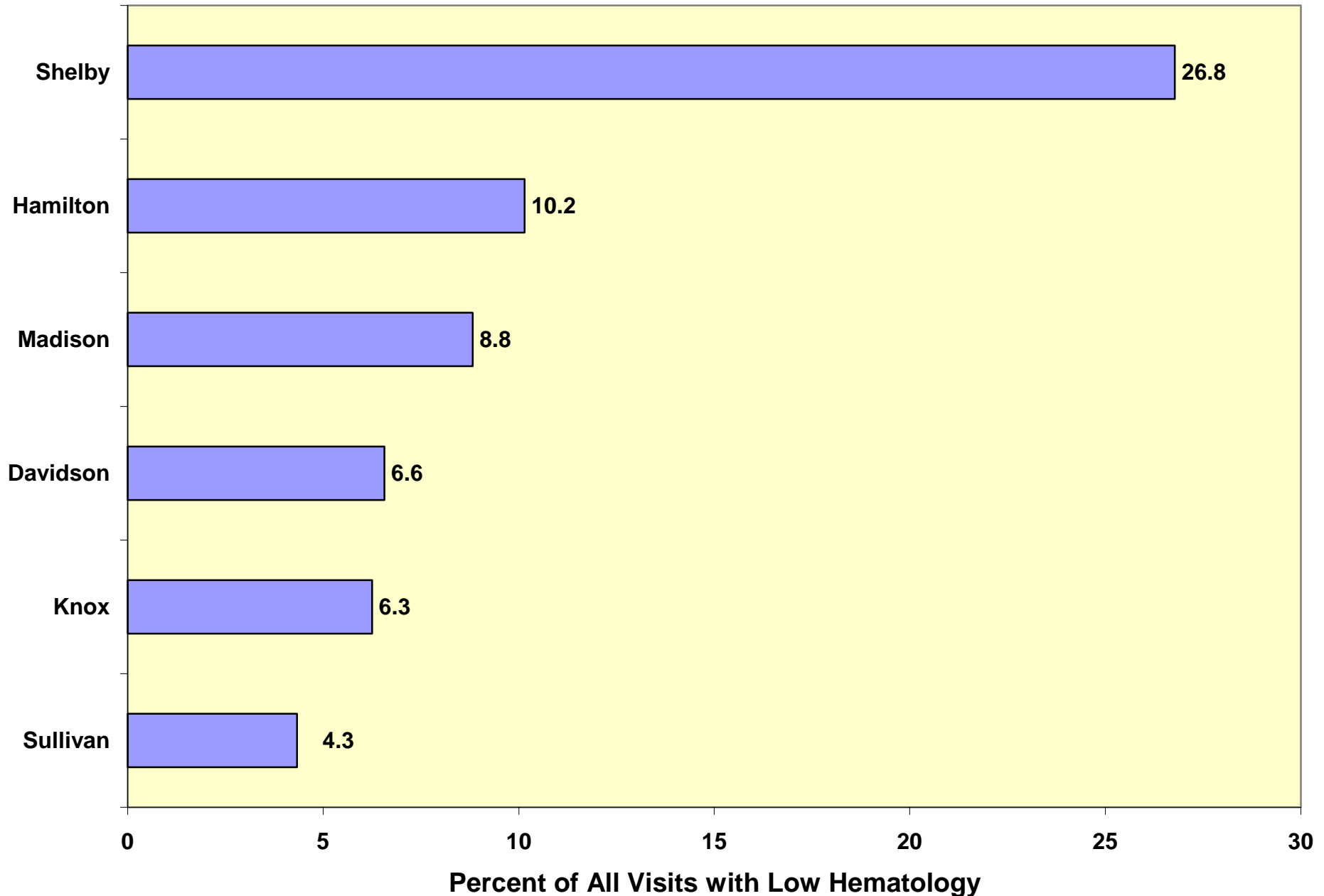
April 23, 2002

Iron Deficiency

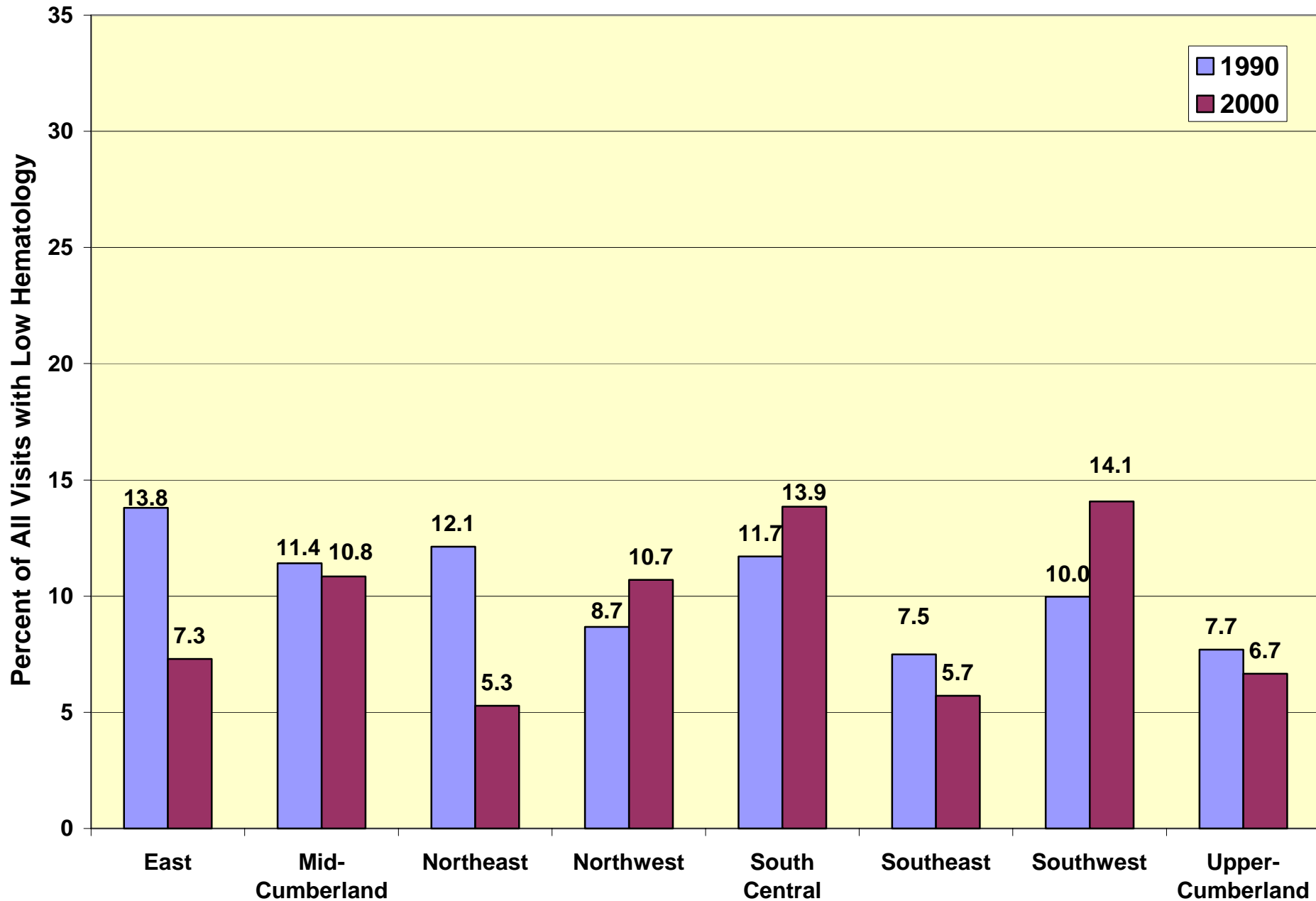
Low Hematology by TDOH Rural Region, 2000



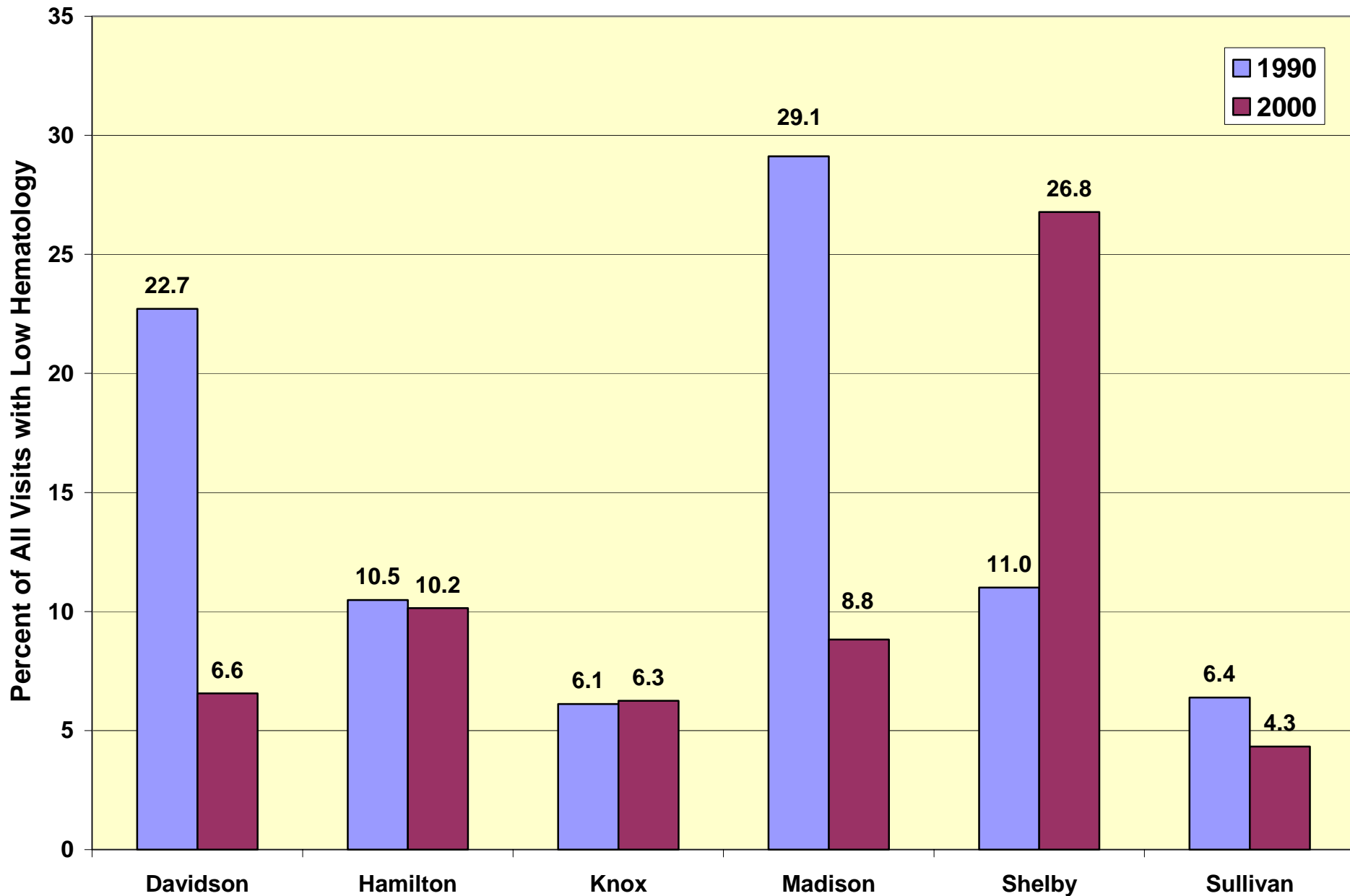
Low Hematology by TDOH Metro Region, 2000



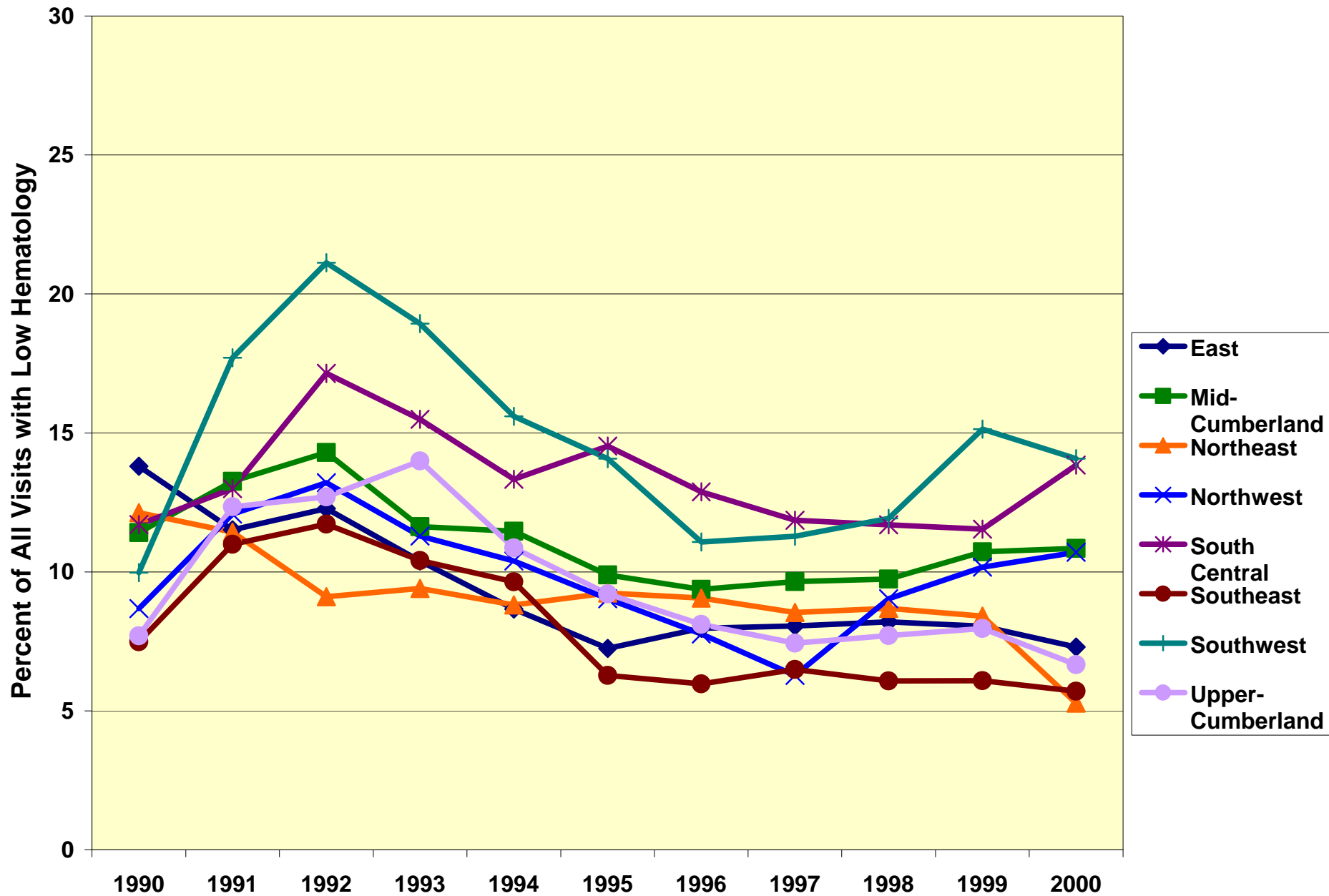
Low Hematology by TDOH Rural Region, 1990 vs 2000



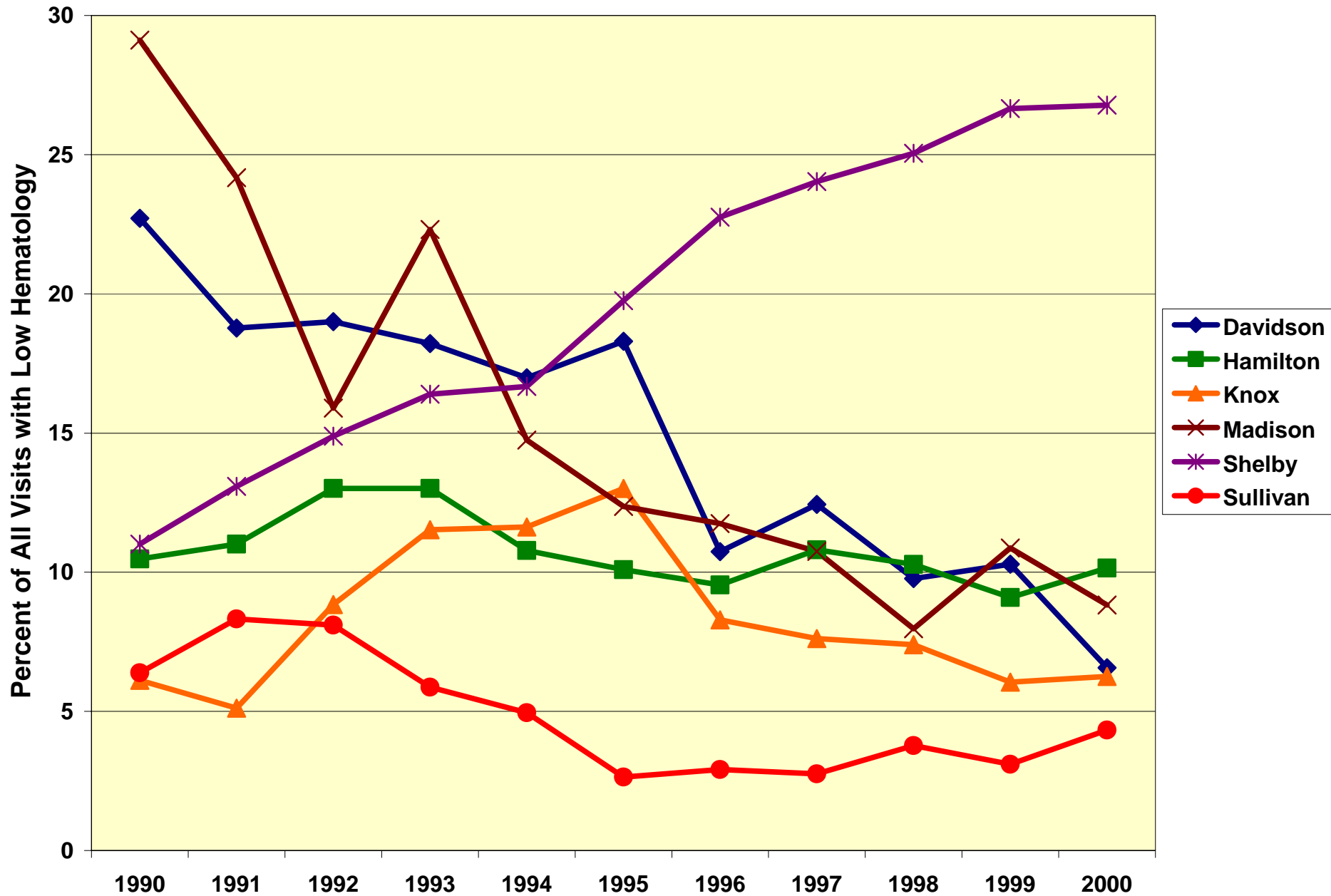
Low Hematology by TDOH Metro Region, 1990 vs 2000



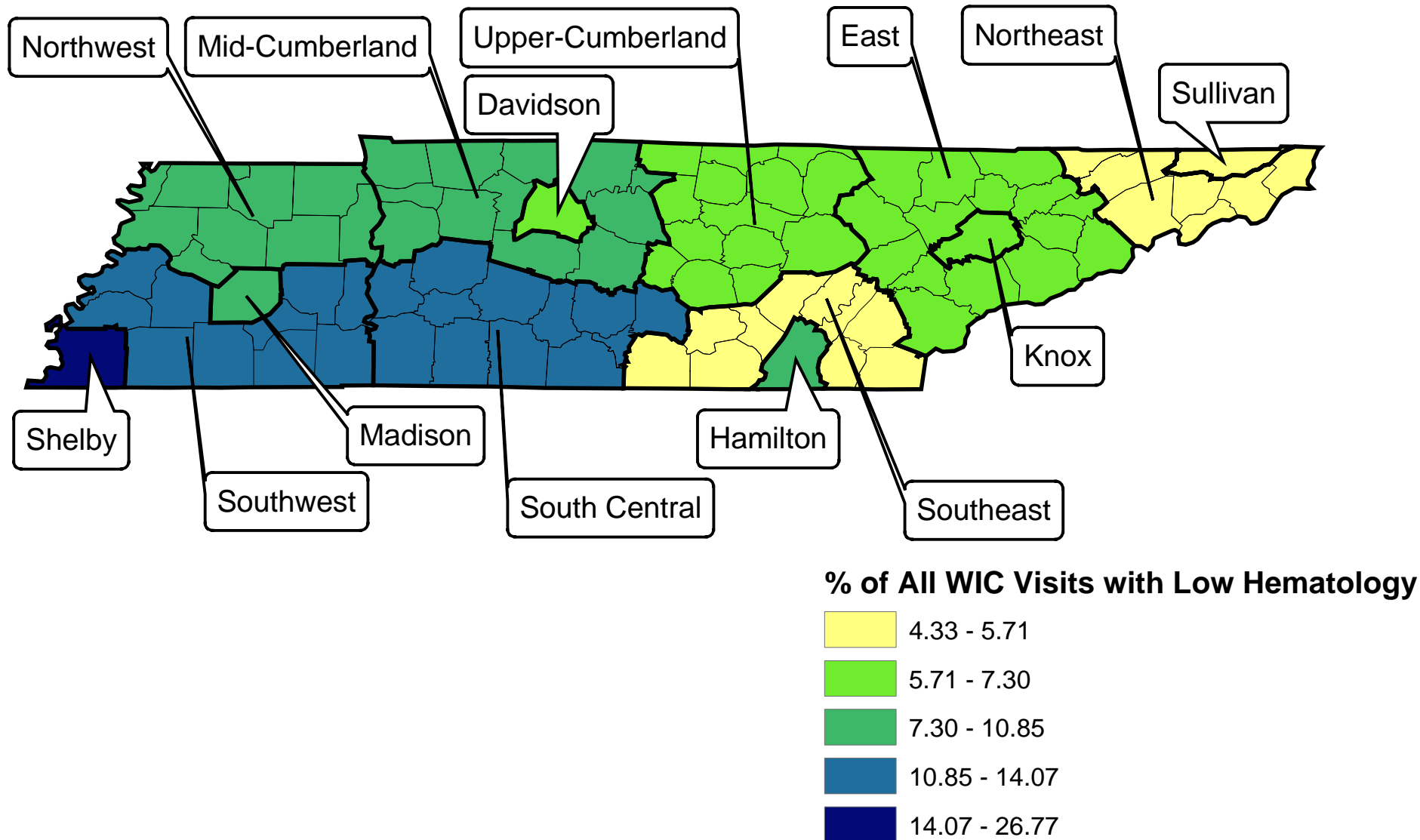
Low Hematology by TDOH Rural Region, 1990 to 2000



Low Hematology by TDOH Metro Region, 1990 to 2000

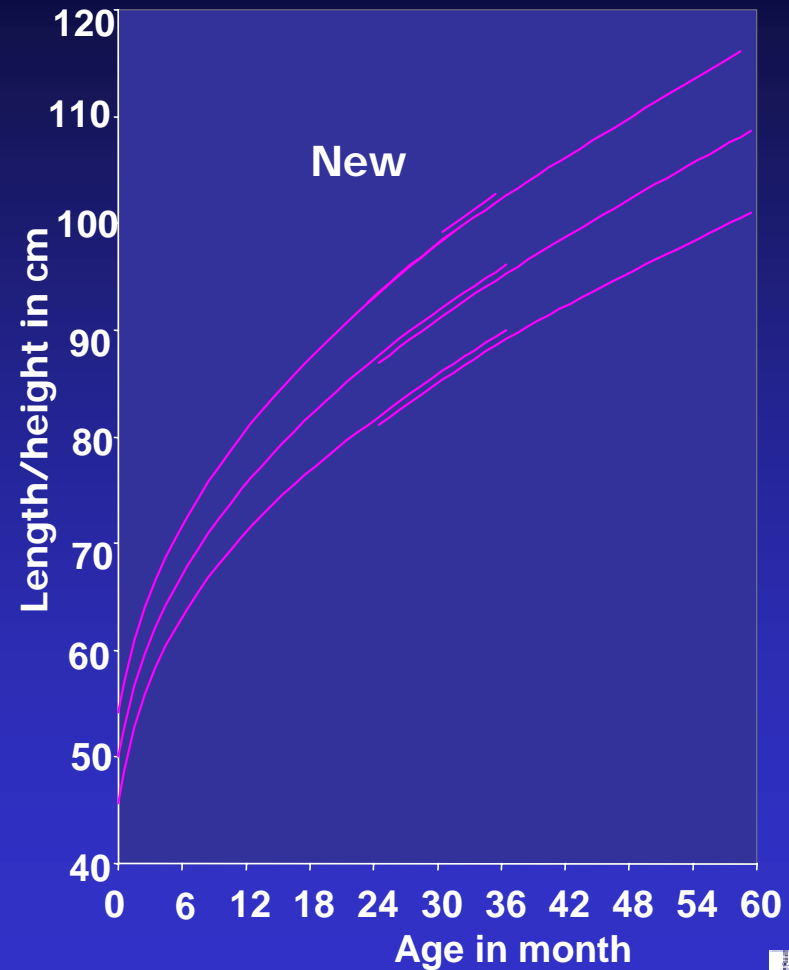
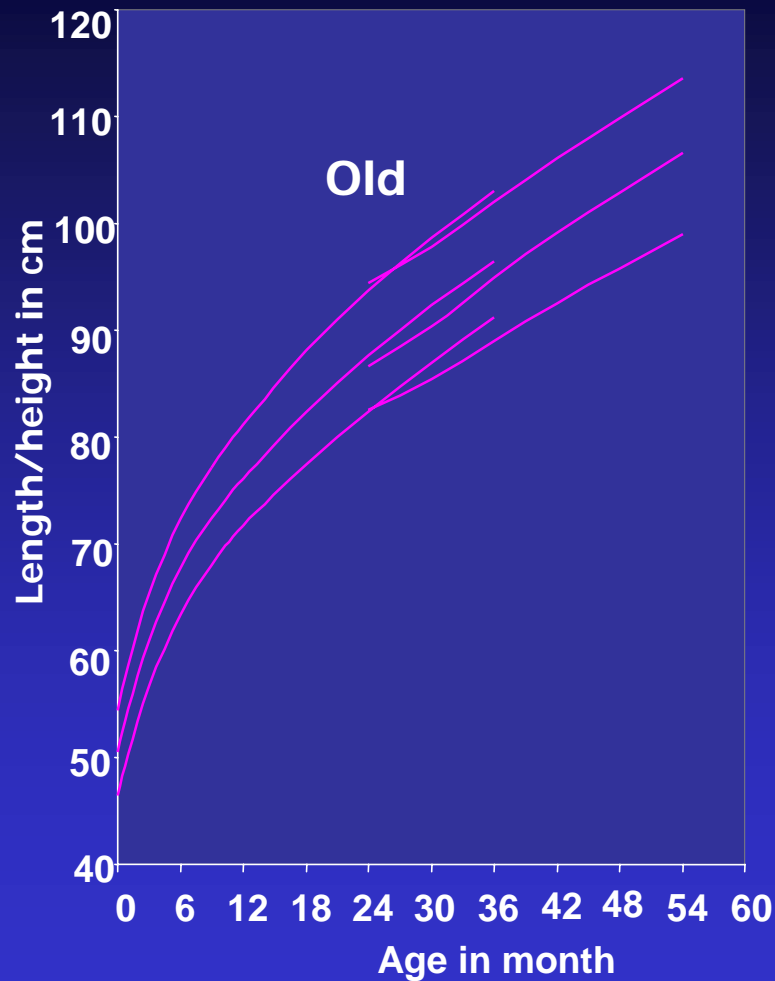


Percent of All WIC Visits with Low Hematology by TDOH Region, 2000



Overweight

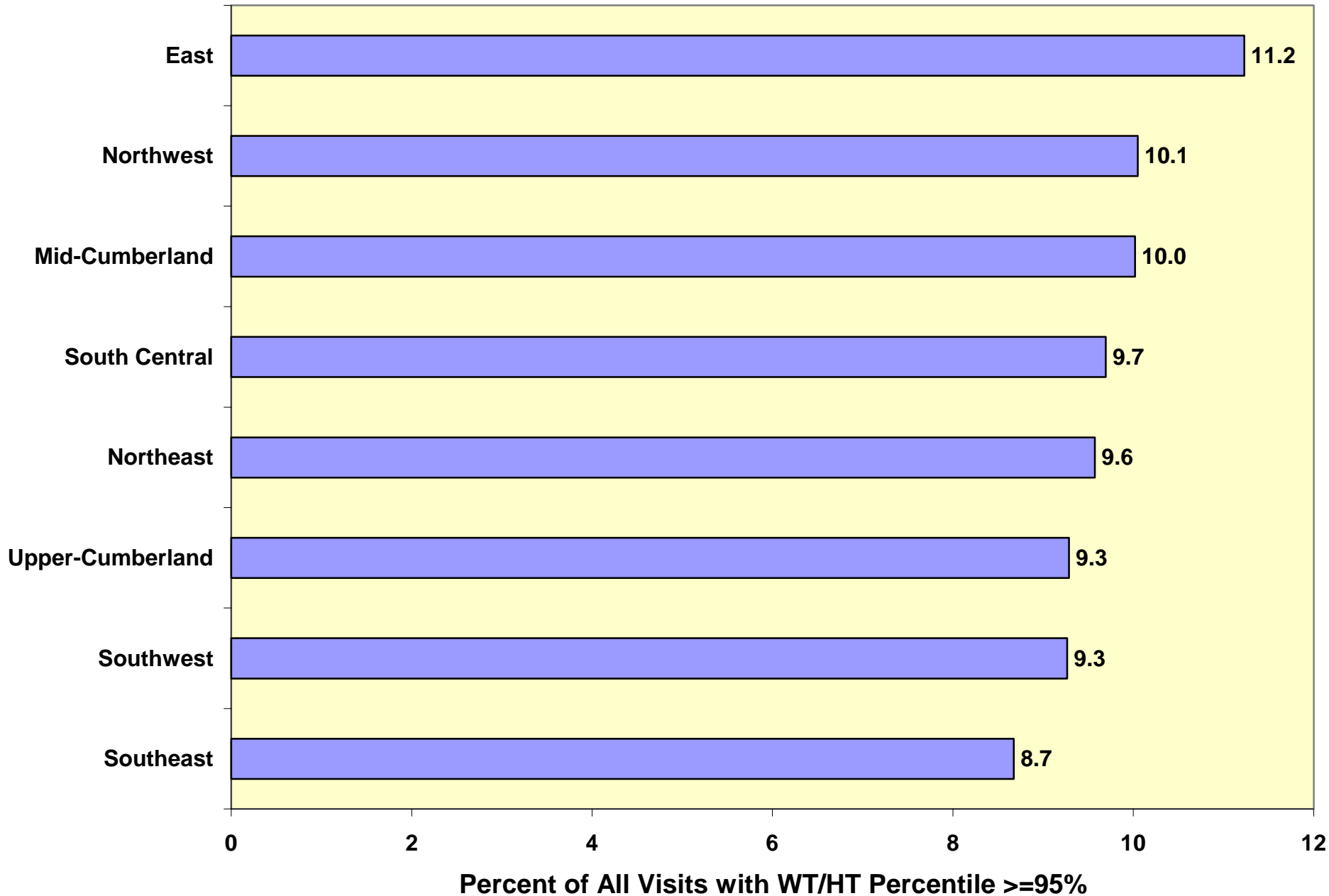
Disjunction: Smoothed in New Charts



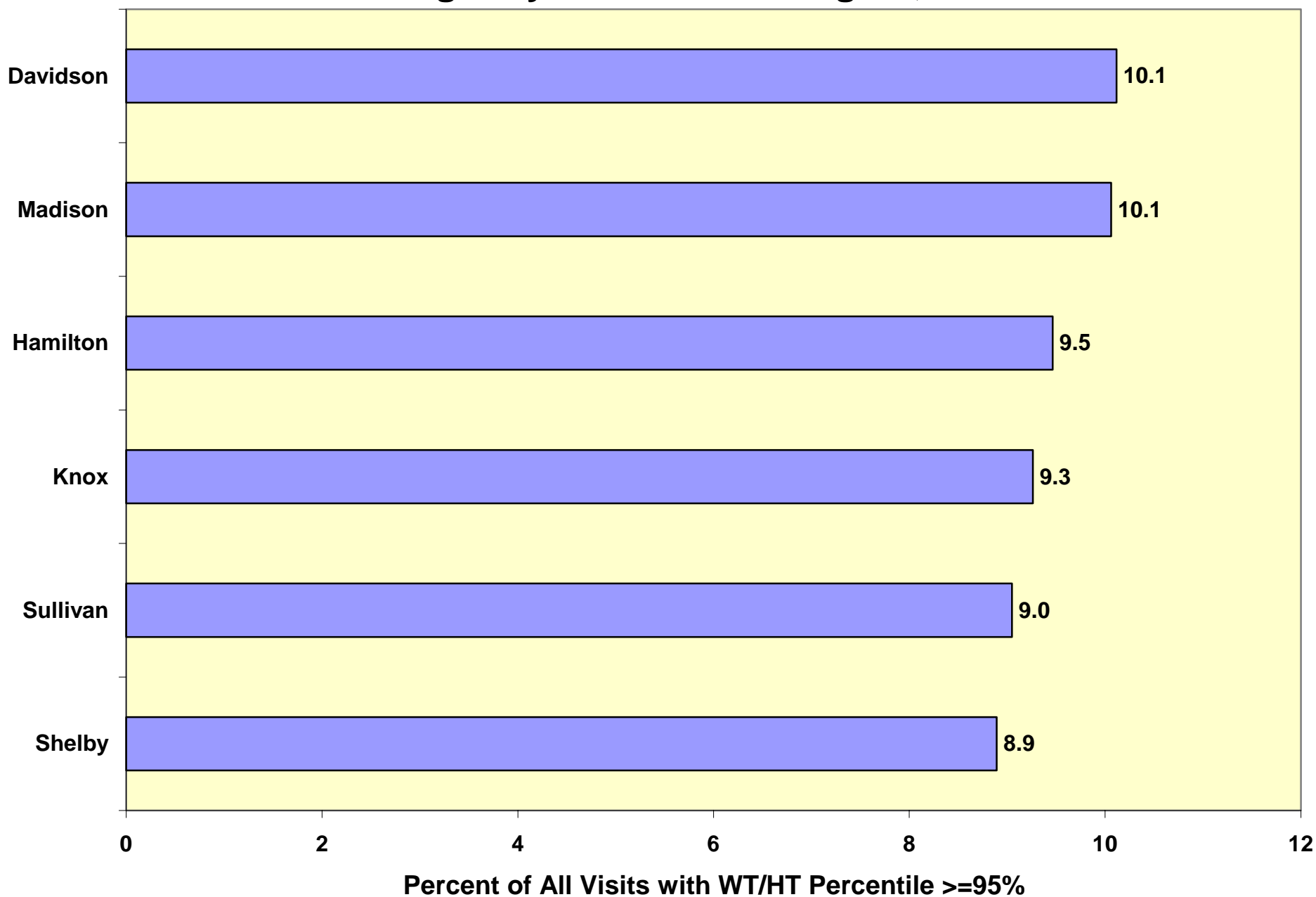
New in the CDC Growth Charts

- ⇒ **Charts extend to 20 years**
- ⇒ **3rd and 97th percentiles available**
- ⇒ **Lower limits of length (45 vs. 49 cm) and height (77 vs. 90 cm) extended**
- ⇒ **BMI-for-age charts (2-20 years) added**
- ⇒ **85th percentile (at risk of overweight) added**

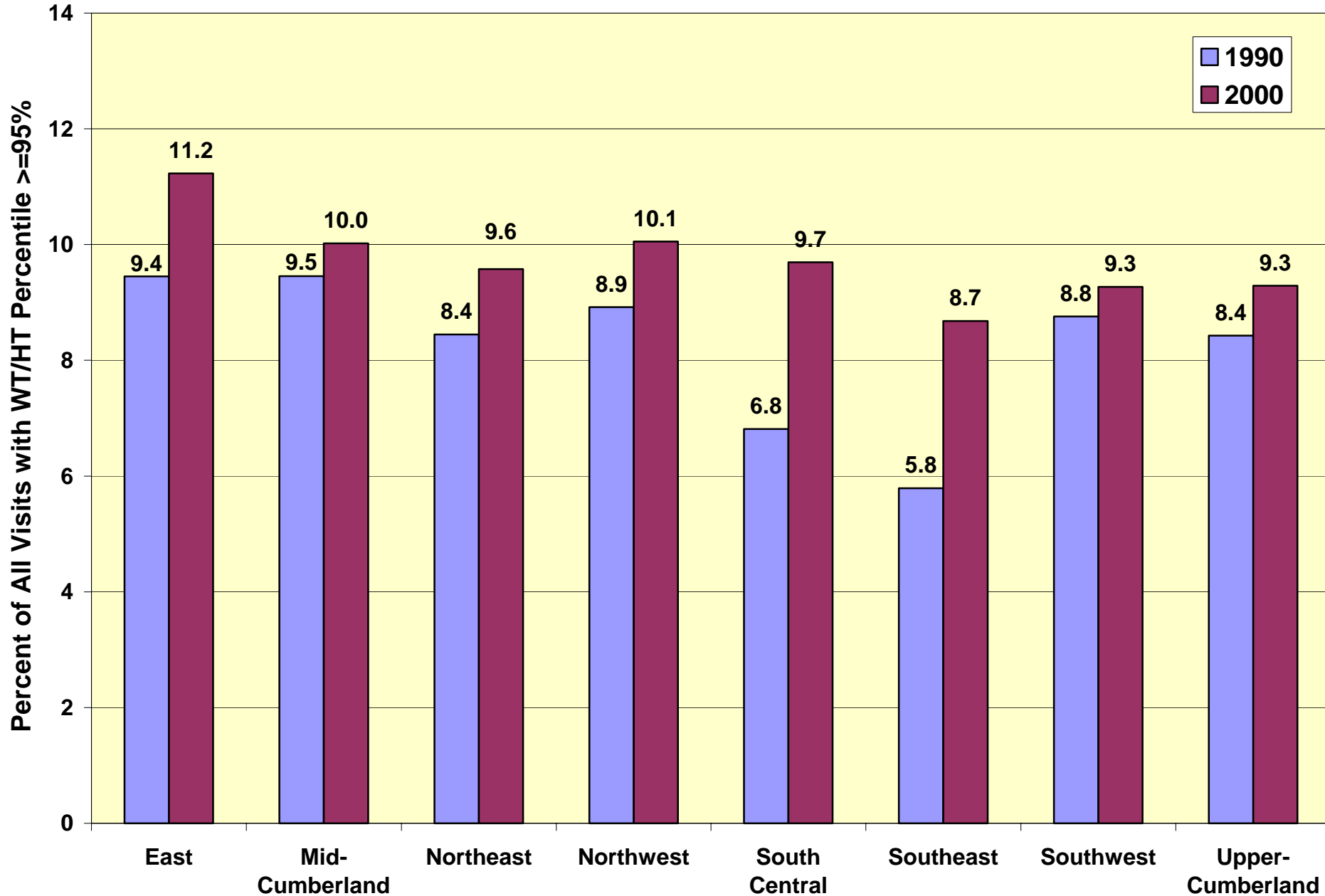
Overweight by TDOH Rural Region, 2000



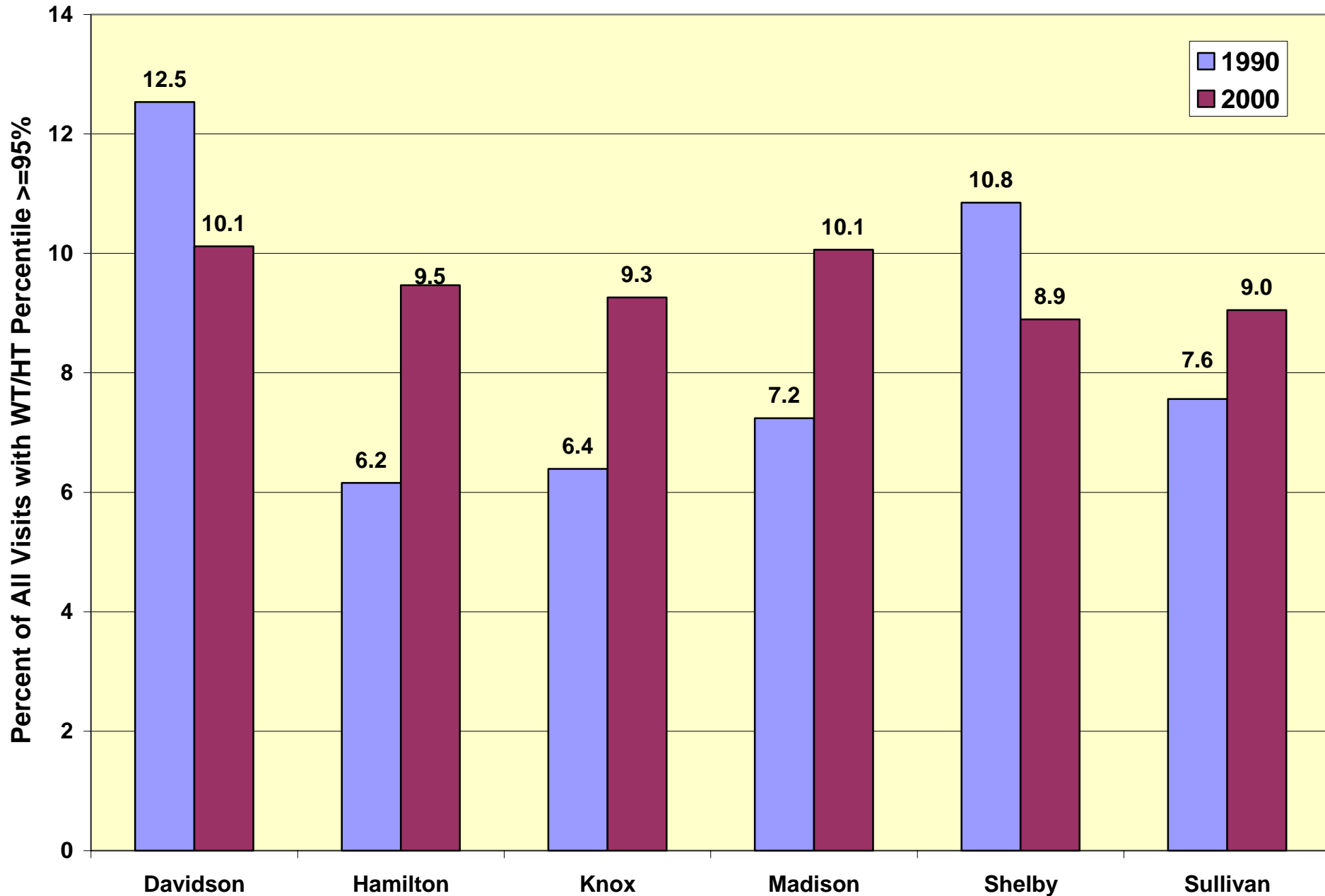
Overweight by TDOH Metro Region, 2000



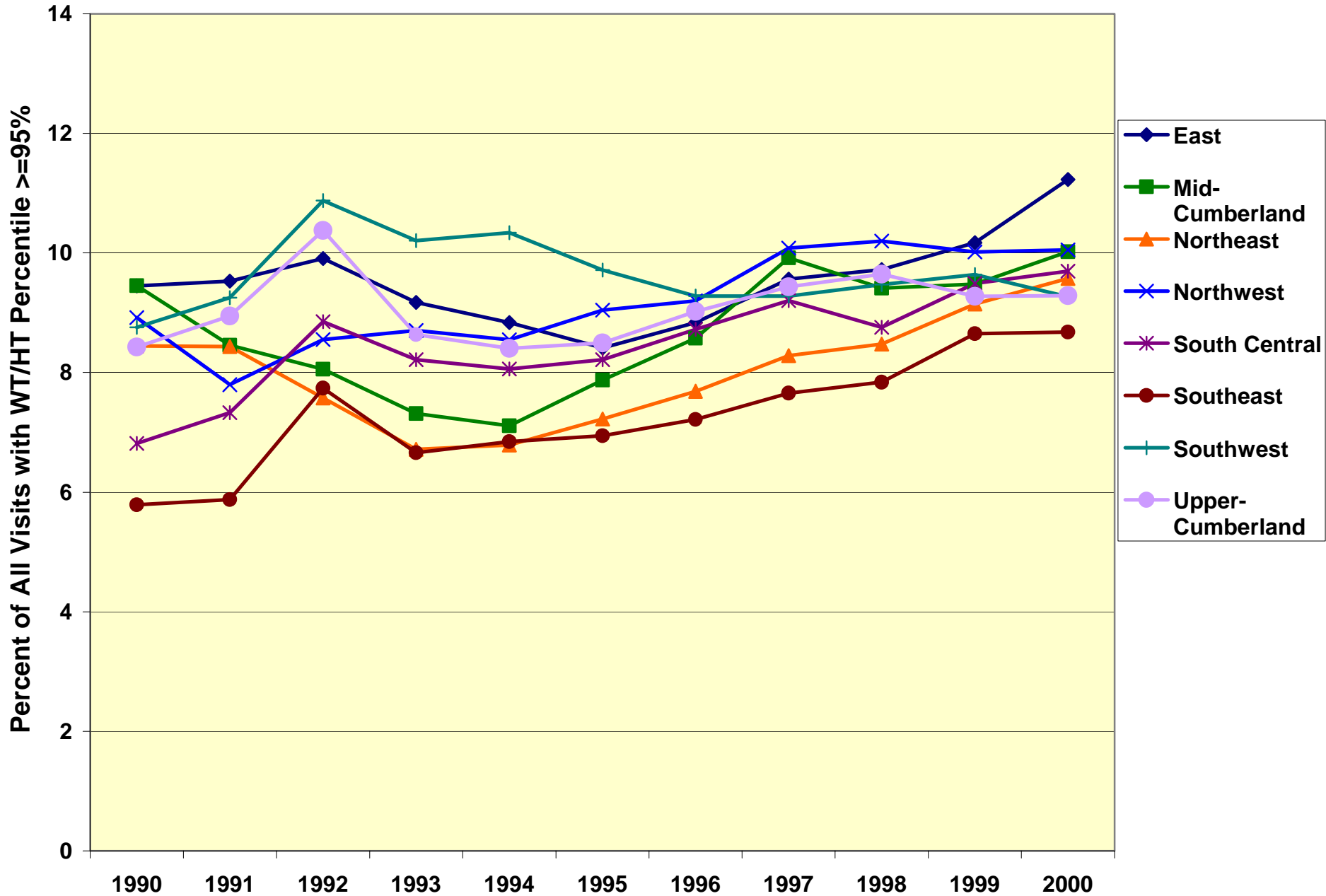
Overweight by TDOH Rural Region, 1990 vs 2000



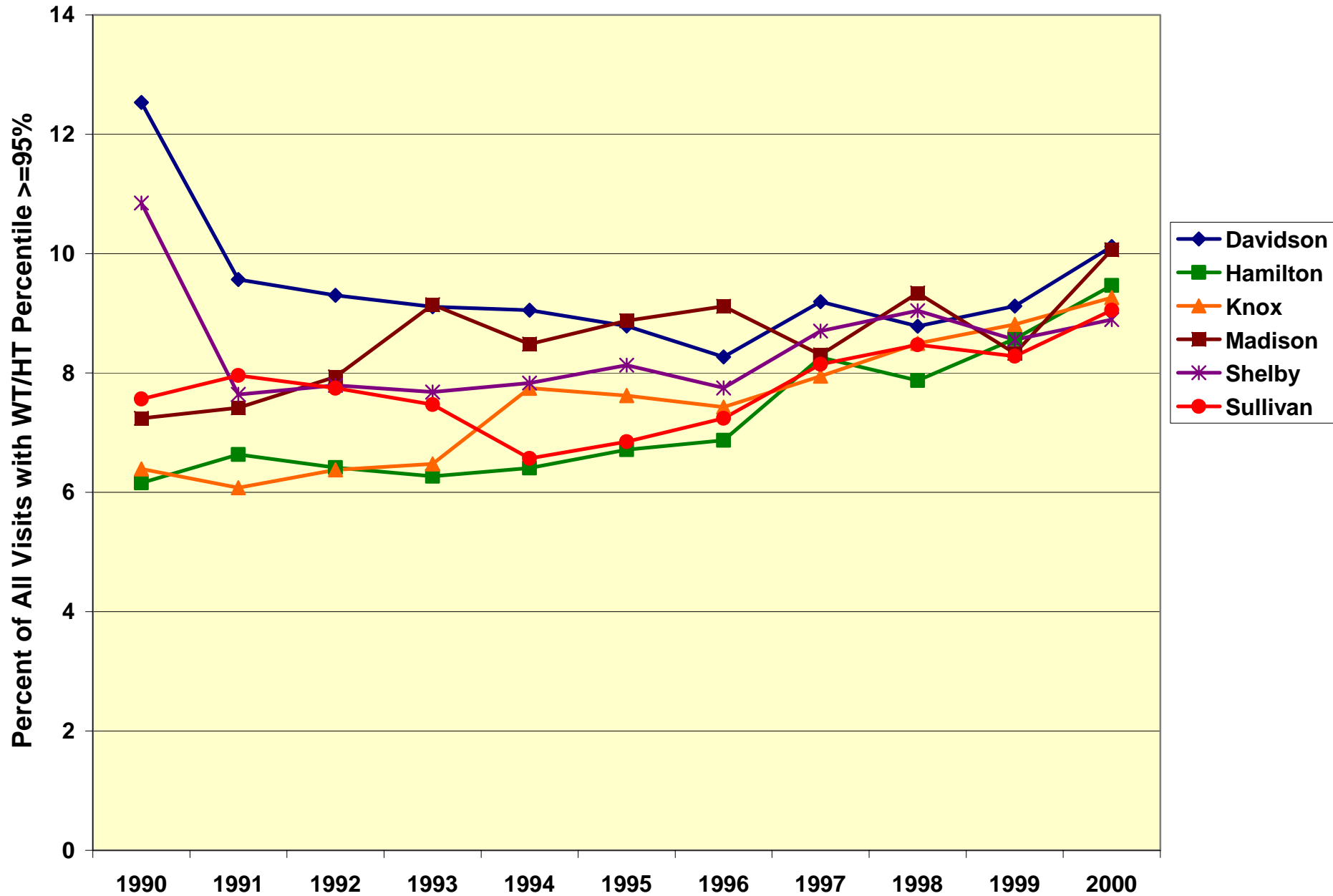
Overweight by TDOH Metro Region, 1990 vs 2000



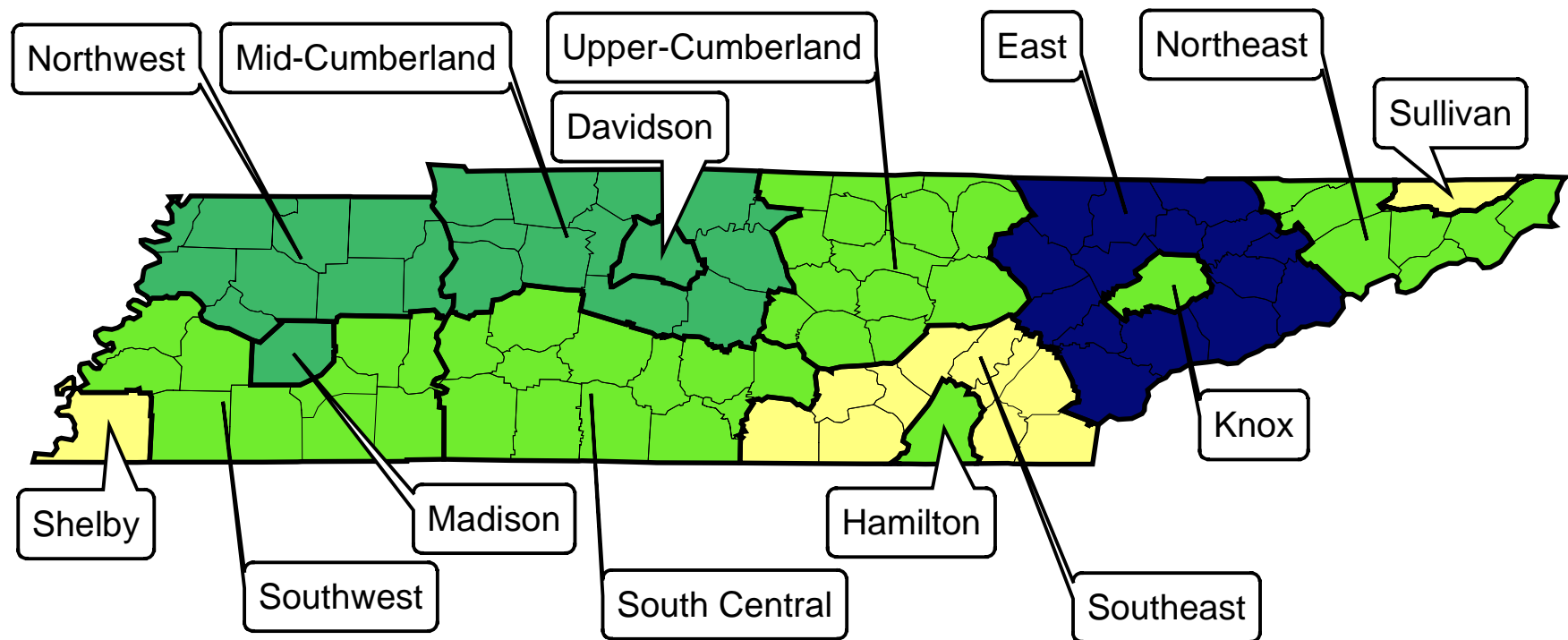
Overweight by TDOH Rural Region, 1990 to 2000



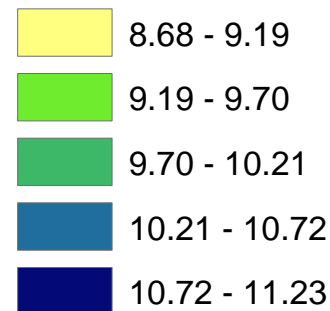
Overweight by TDOH Metro Region, 1990 to 2000



Percent of All WIC Visits with WT/HT Percentile $\geq 95\%$ by TDOH Region, 2000



% of All WIC Visits with Overweight



Monster Portions

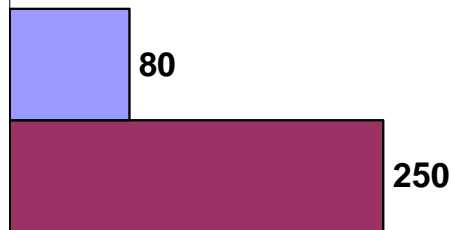
Growth of serving sizes of three products since 1955, by calories. For children aged 7 to 10, nutritionists recommend a daily diet of 1,600 to 2,400 calories.

■ 1955 Portion
■ 2001 Options

McDonald's Fries



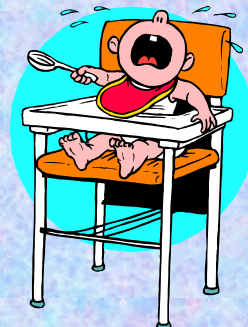
Coca Cola



Snickers Bar



Un-happy Meals. . .



	Calories	Total Fat (g)	% Fat Calories	Saturated Fat (g)	Cholesterol (mg)	Sodium (mg)
Big Mac	590	34	52%	11	85	1090
Supersize Fries	610	29	42%	5	0	390
Supersize Coke	410	0	0%	0	0	40
Total Big Mac Meal	1610	63		16	85	1520

	Calories	Total Fat (g)	% Fat Calories	Saturated Fat (g)	Cholesterol (mg)	Sodium (mg)
Cheeseburger	330	14	38%	6	45	830
Small Fries	210	10	43%	1.5	0	135
Hi-C Orange Drink	160	0	0%	0	0	30
Total Happy Meal	700	24		7.5	45	995

Source: www.calorieking.com

Acknowledgements



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